POST COURSE SELF CREATION

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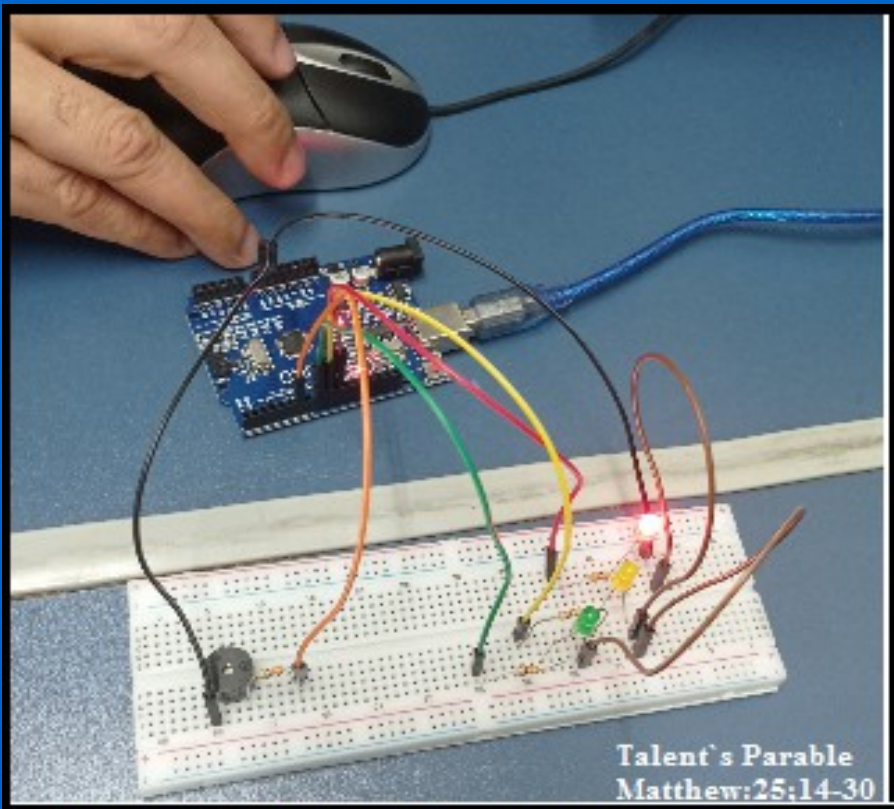
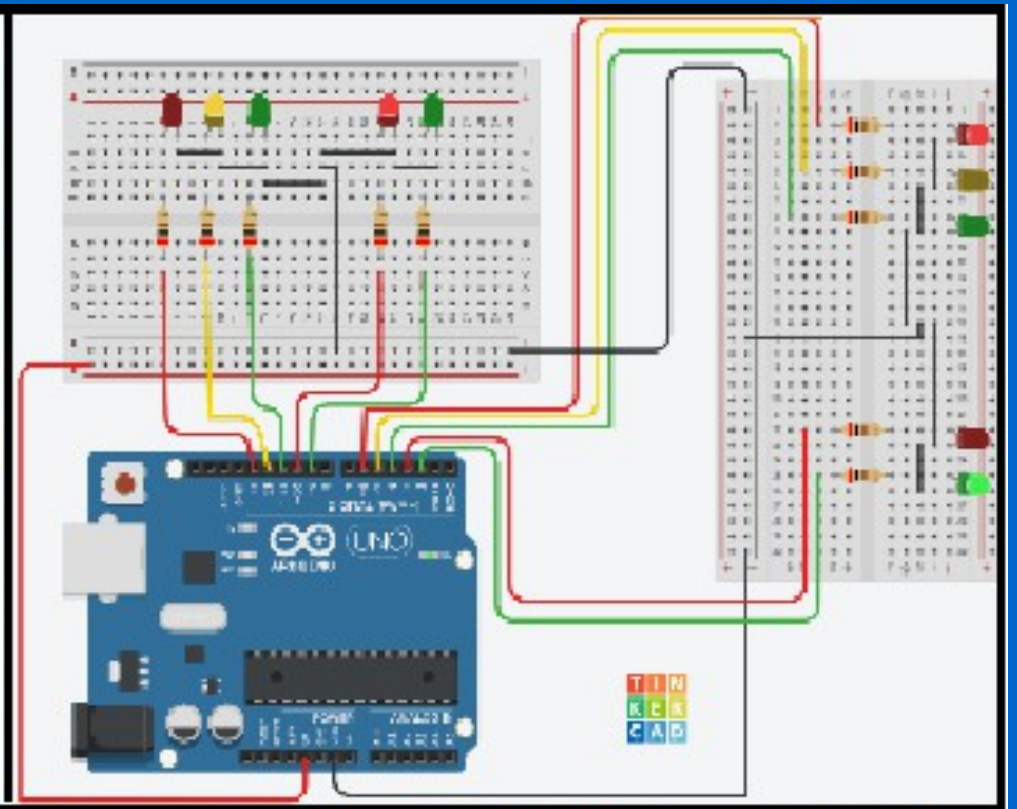
ELETRONIC TECNICAL
DECEMBER 2024

TOWARD MY PARENTS HONOR
TO MY WHOLE LIFE`S TEACHERS
EVERY ARDUINO PLATAFORM EVOLVERS,
AS WELL AS TINKERCAD E AUTODESK CREW.

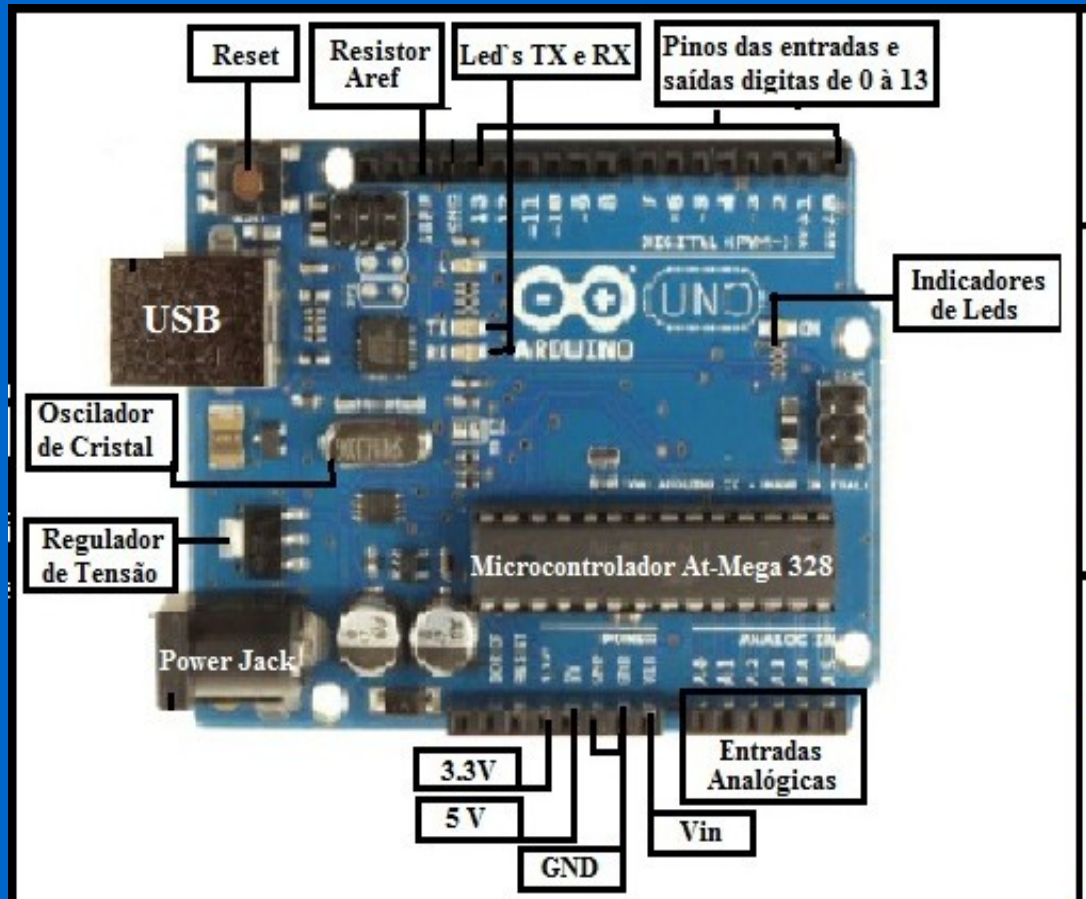
FROM THE 1TH YET THE LAST STEP

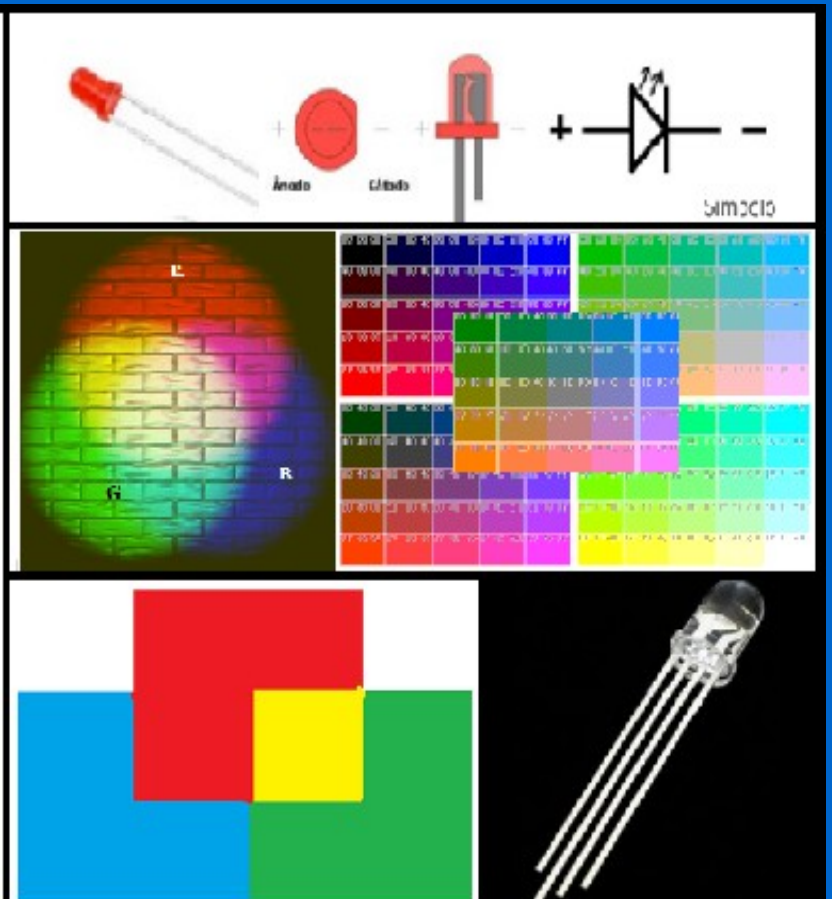




Behold, the hard level of this right side semaphore circuit achivement, just only was possible within that profitable hand giving me by my classmates there at State College Frnacis Mayor Offspring Tower lab class.

STARTING DOCUMENTATION`S WORK





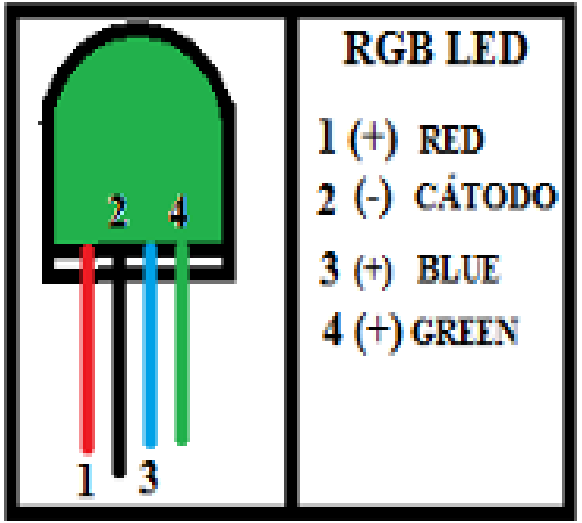
SEMAPHORES SYNCHRONIZED LOGIC

PRINCIPAL		TRANSVERSAL	
CARROS	PEDESTRES	CARROS	PEDESTRES
TOGGLE			

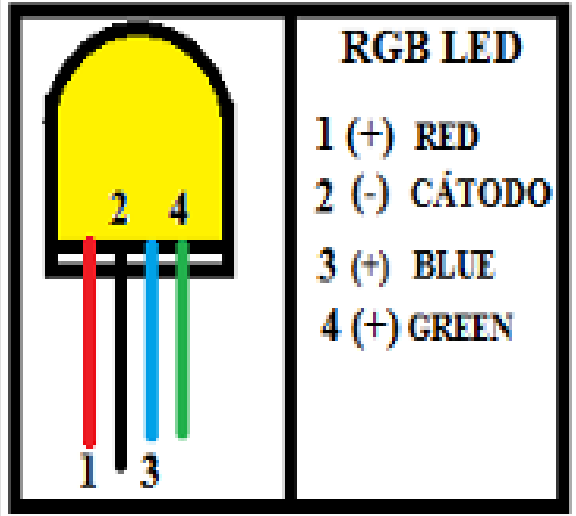
PRINCIPAL		TRANSVERSAL	
CARROS	PEDESTRES	CARROS	PEDESTRES
1	4	6	9
2		7	
3	5	8	10
1	4	6	9
2		7	
3	5	8	10
1	4	6	9
2		7	
3	5	8	10
1	4	6	9
2		7	
3	5	8	10
TOGGLE			

DIVERS STAGES TO THE SAME RGB LED

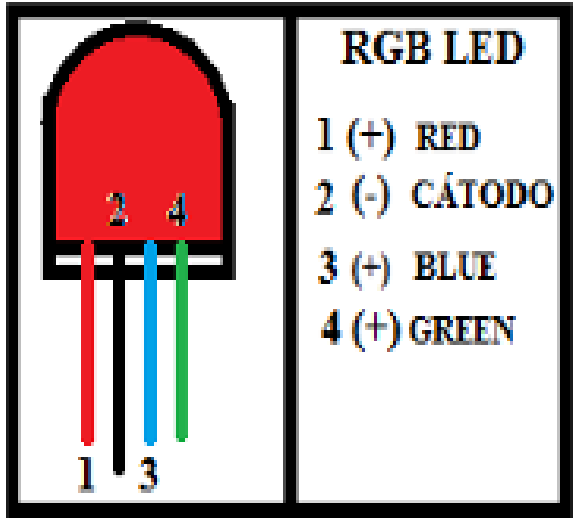
THREE STAGES FOR THE SAME RGB LED



1th STAGE



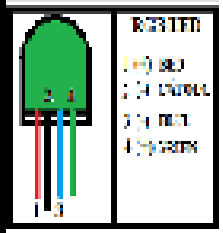
2th STAGE



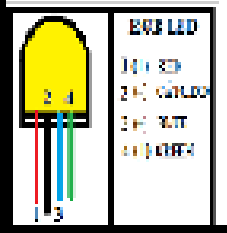
3th STAGE

DIVERS STAGES PROGRESS

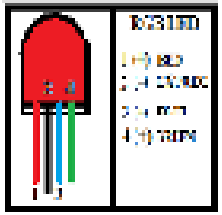
Behold, the logical level for this circuit color settlement, follows the electronic pin standart and not his "SI" acronym



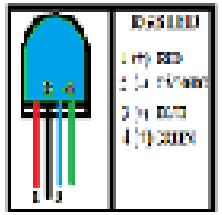
RED	BLUE	GREEN
LOW	LOW	HIGH



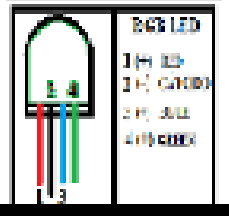
RED	BLUE	GREEN
HIGH	LOW	HIGH



RED	BLUE	GREEN
HIGH	LOW	LOW



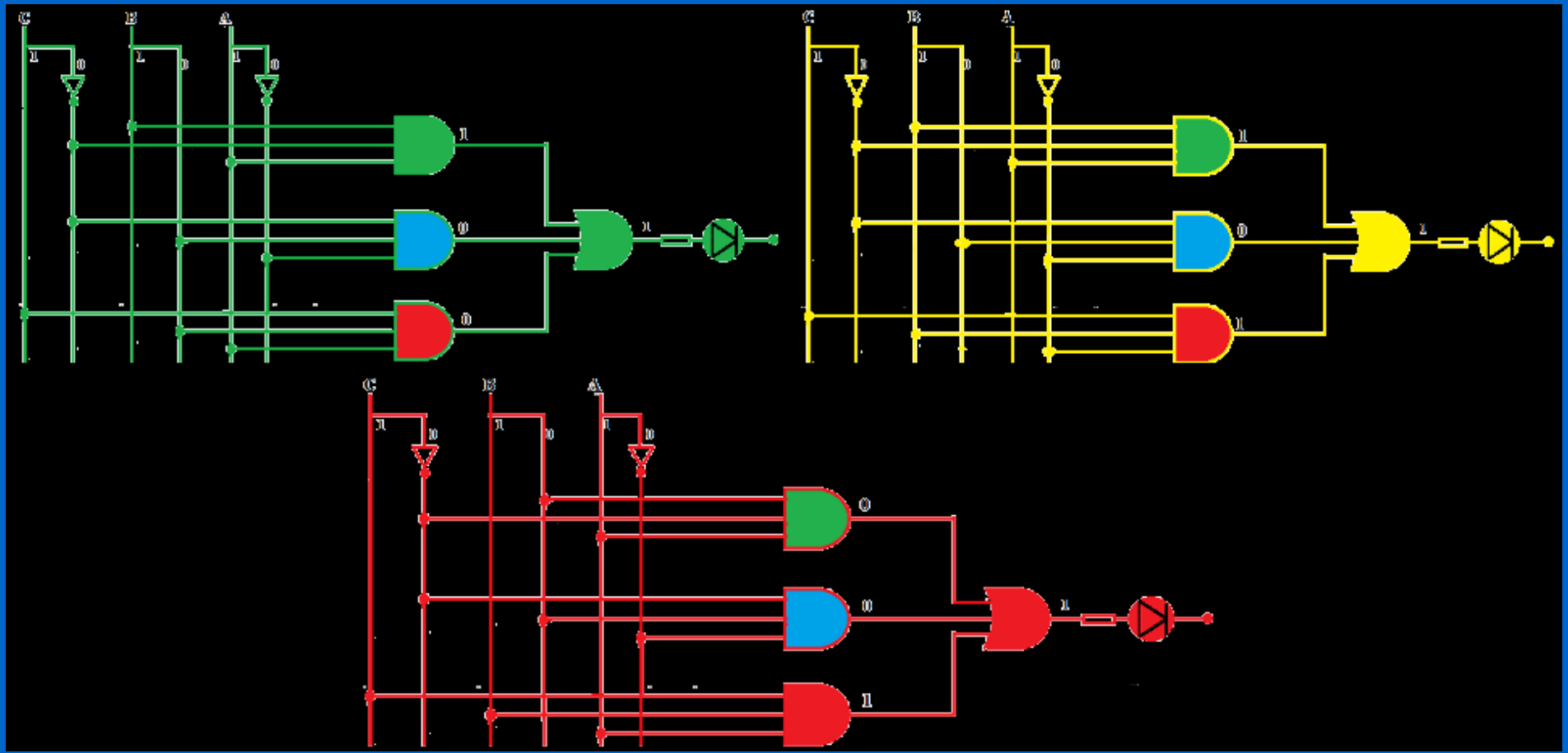
RED	BLUE	GREEN
LOW	HIGH	LOW



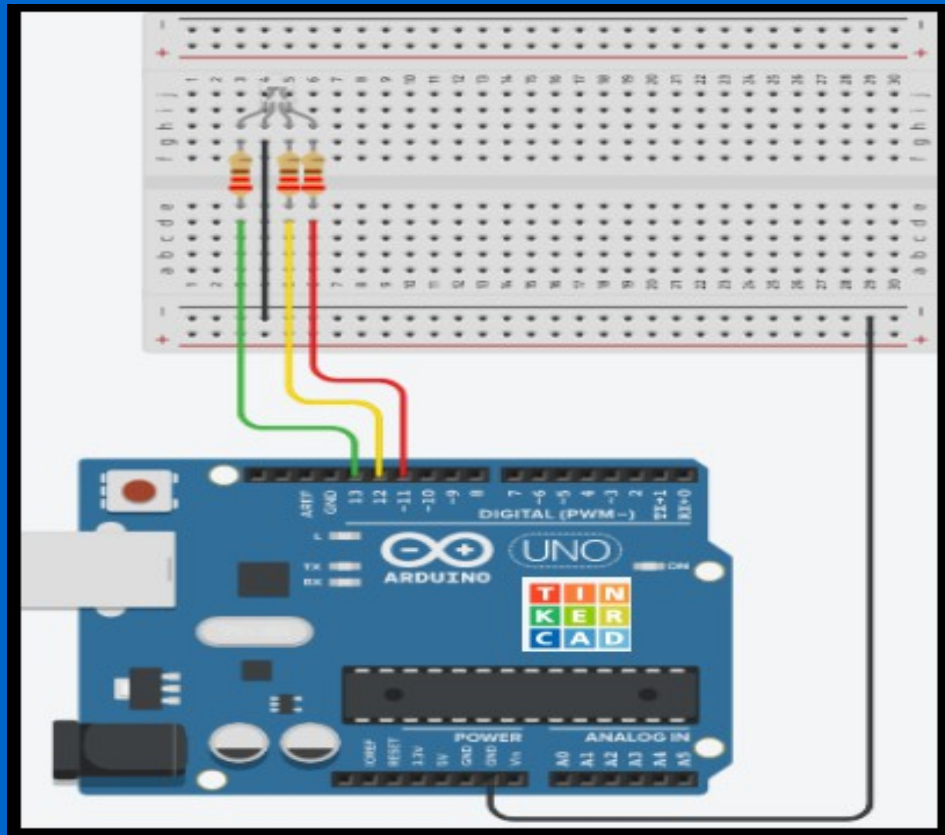
RED	BLUE	GREEN
HIGH	HIGH	HIGH

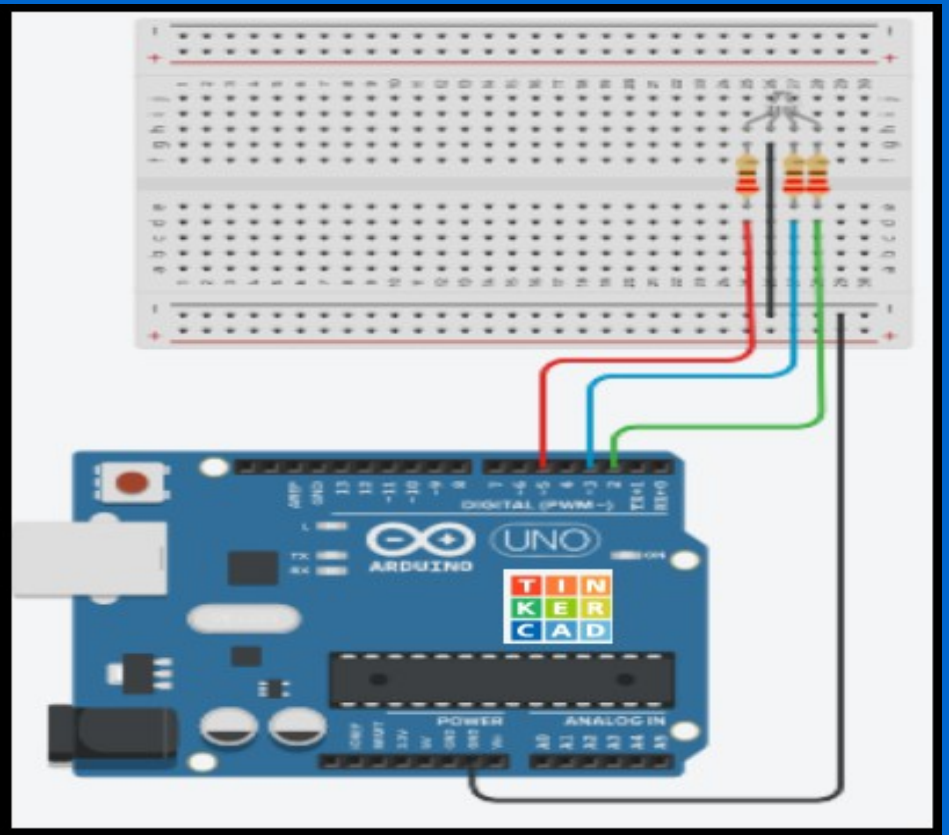
Obs: there are yet countless colours that can be framed starting from the three primary colours. But, for this time, those showing here are enough to conclude our study aproach

POSSIBLE RGB LOGICAL DOOR`S DIAGRAM

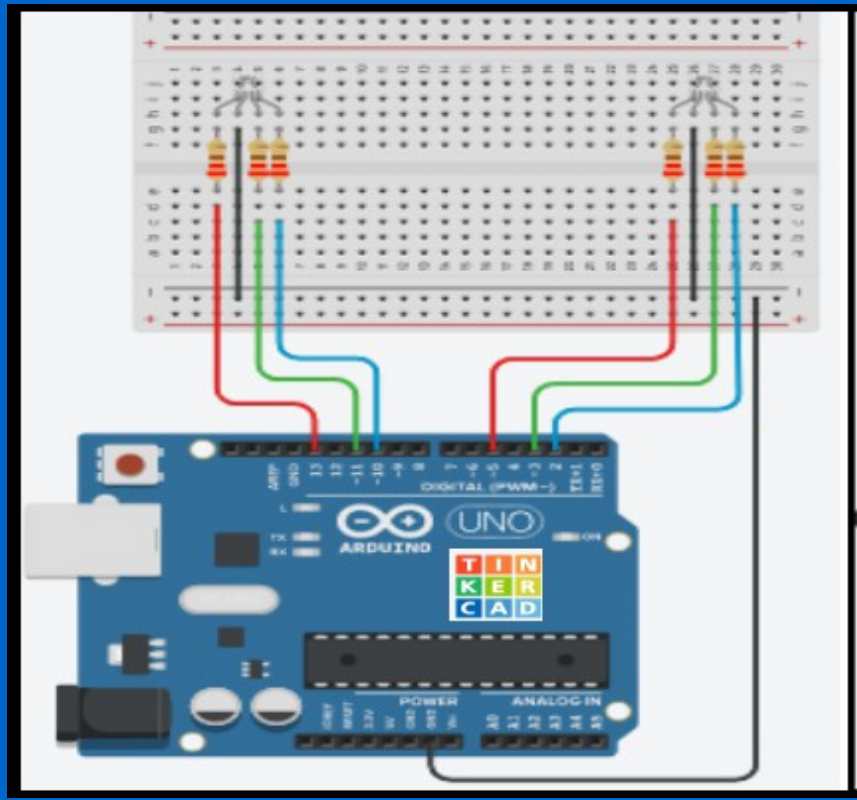


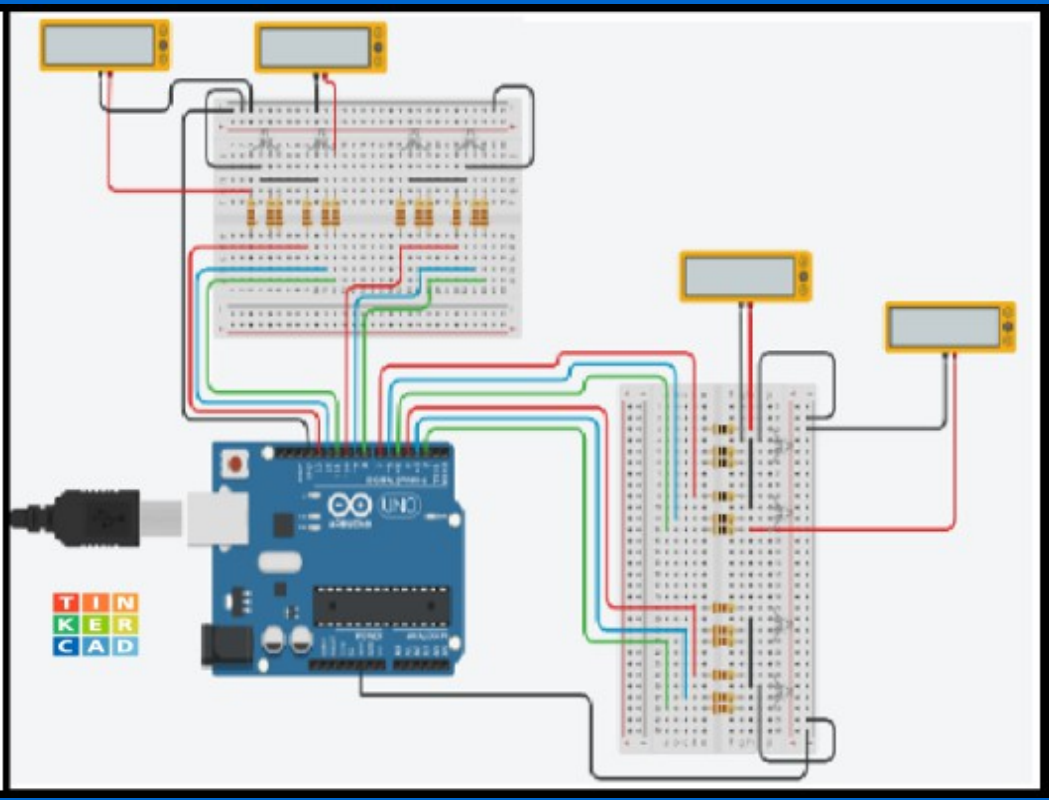
FIRST AND SECOND STEP OF THIS HARD LABOUR



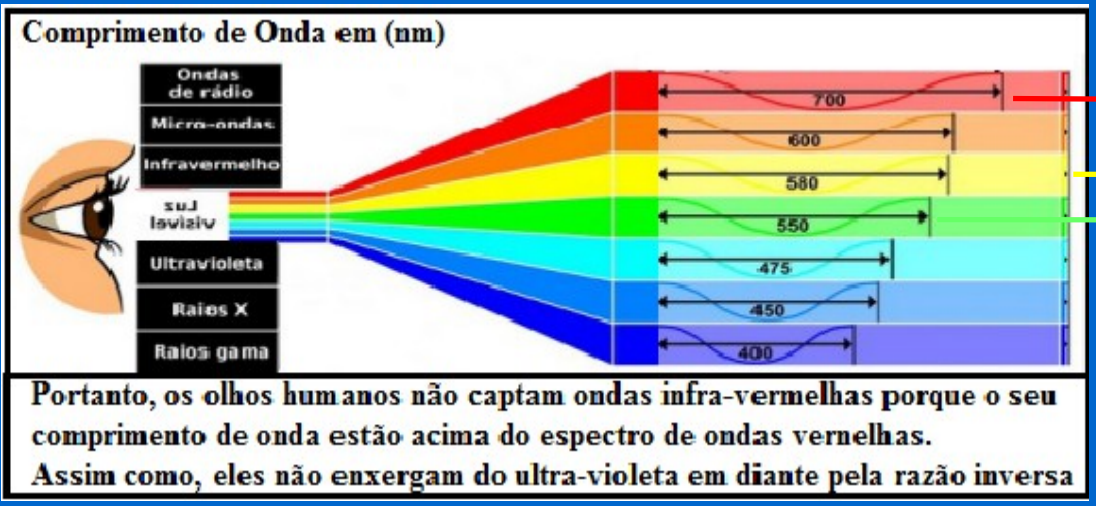


FINALLY, THESE HARD LABOR WAS CONCLUDED OVERALL

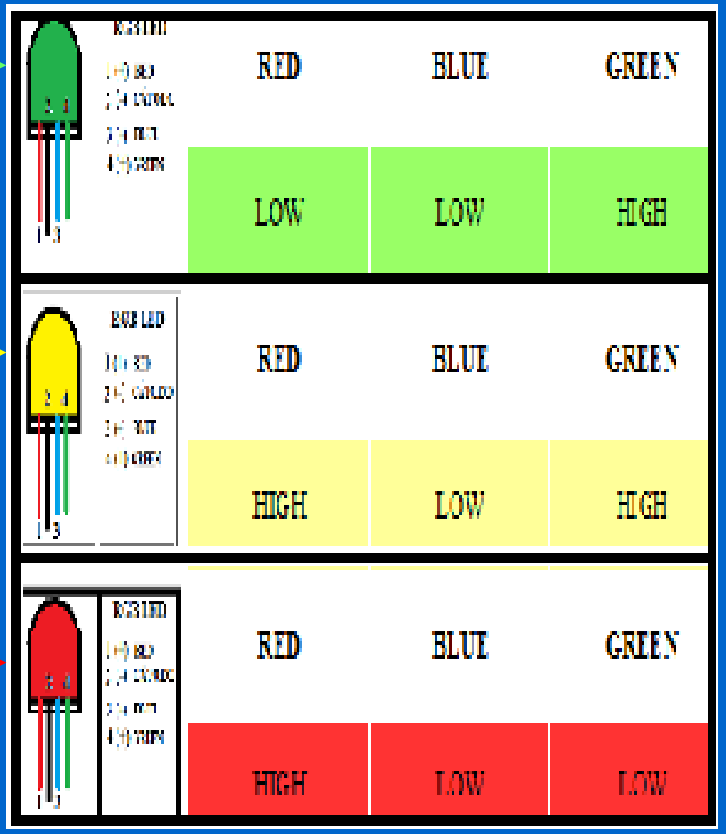




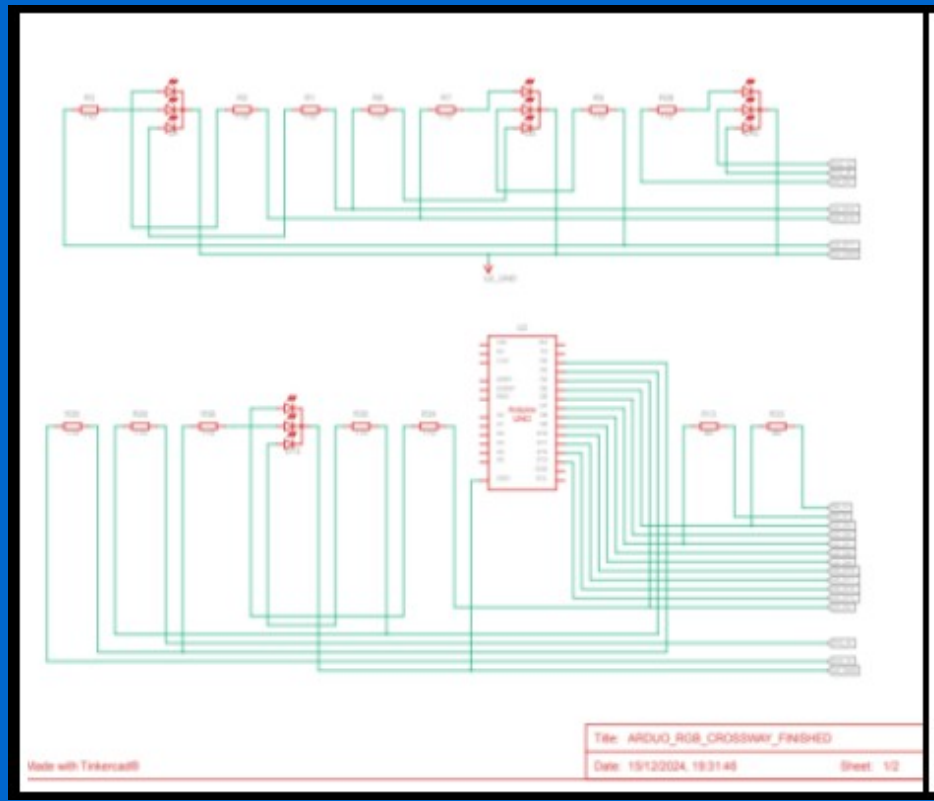
LIGTH COLOUR SPECTRUM COMPOUND

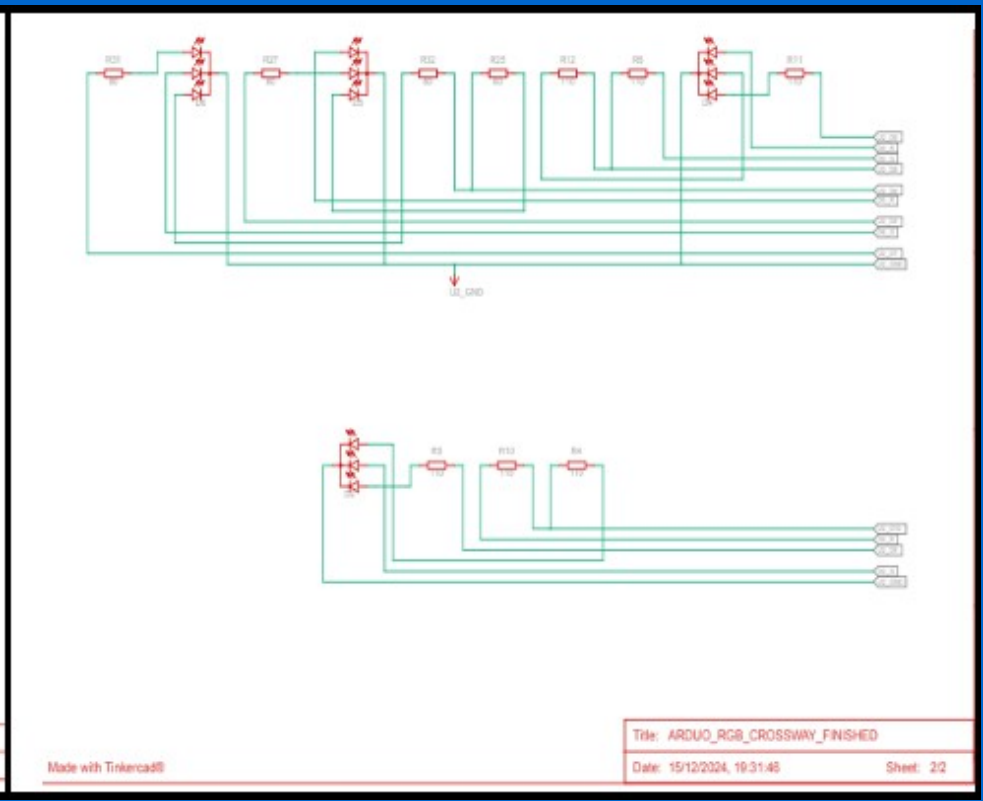


Portanto, os olhos humanos não captam ondas infra-vermelhas porque o seu comprimento de onda estão acima do espectro de ondas vernelhas.
Assim como, eles não enxergam do ultra-violeta em diante pela razão inversa

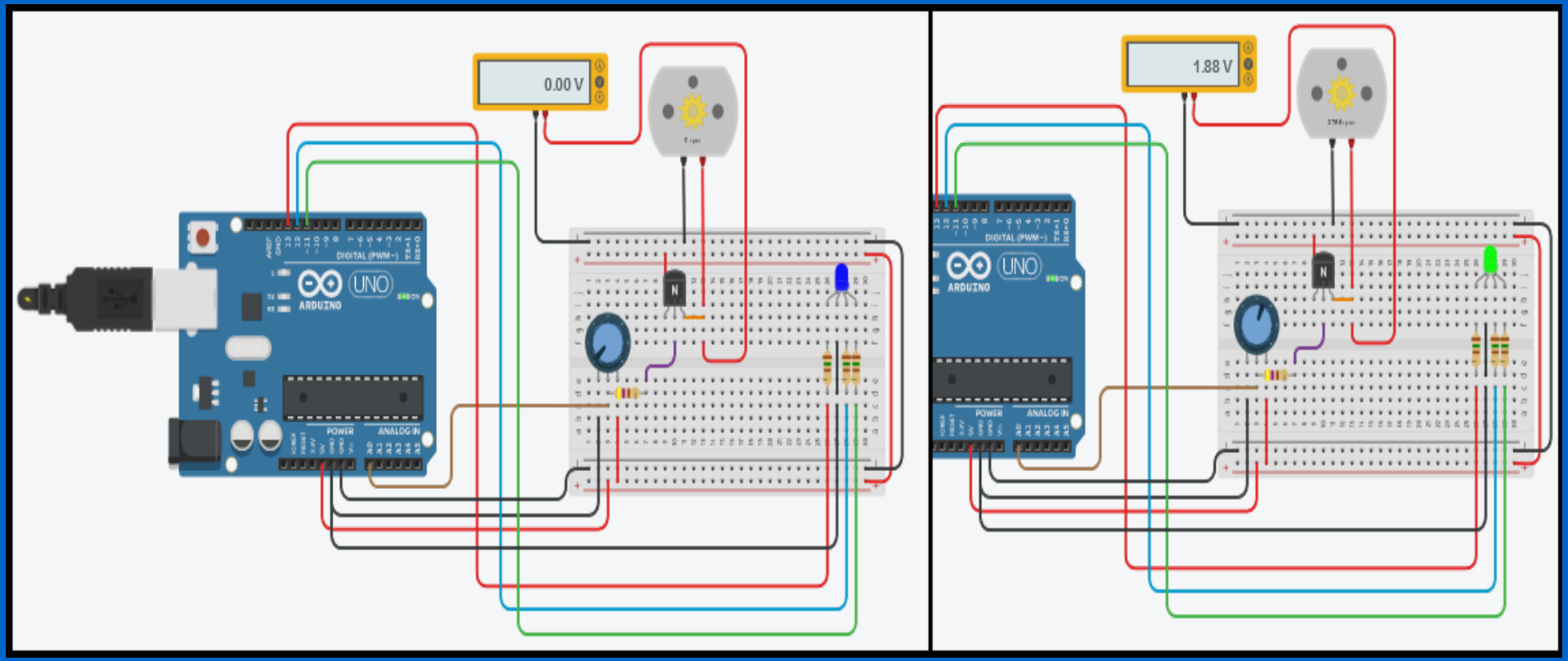


RGB SEMAPHORE LOGICAL DIAGRAM

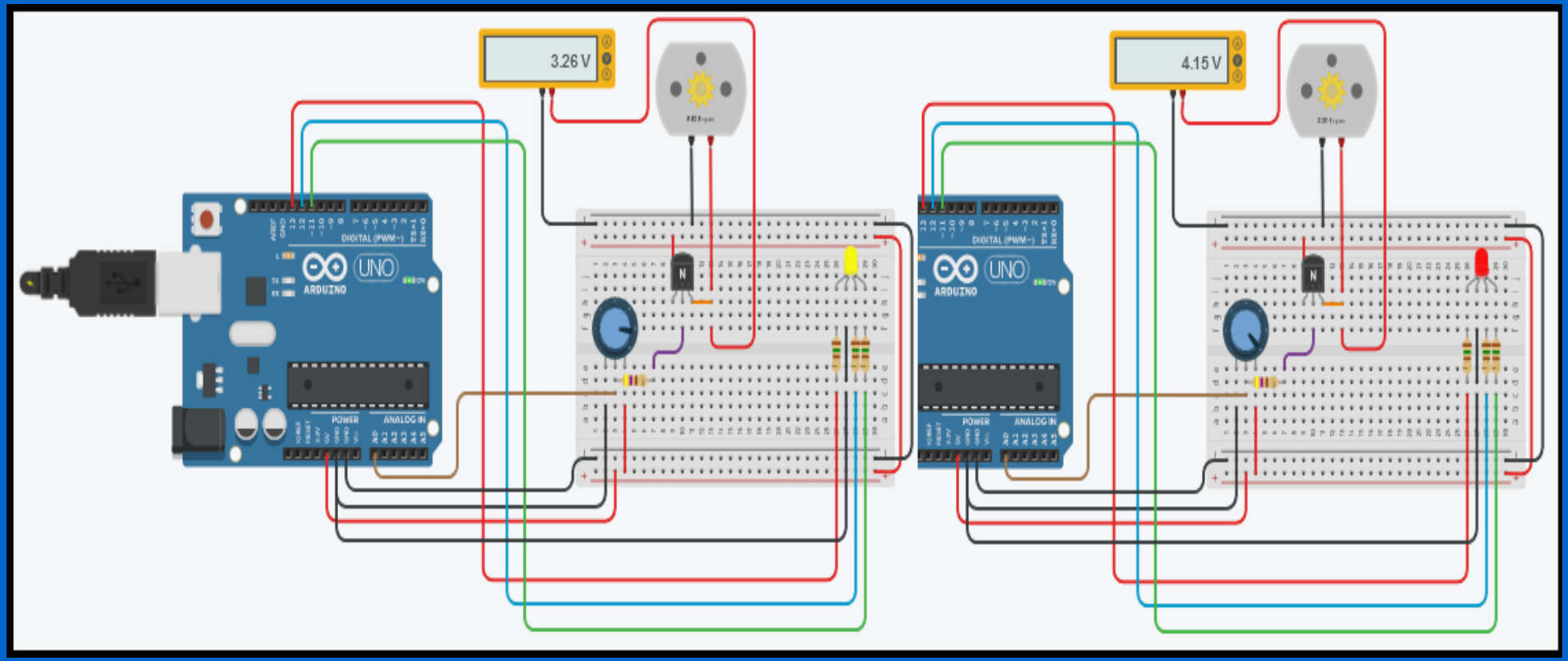




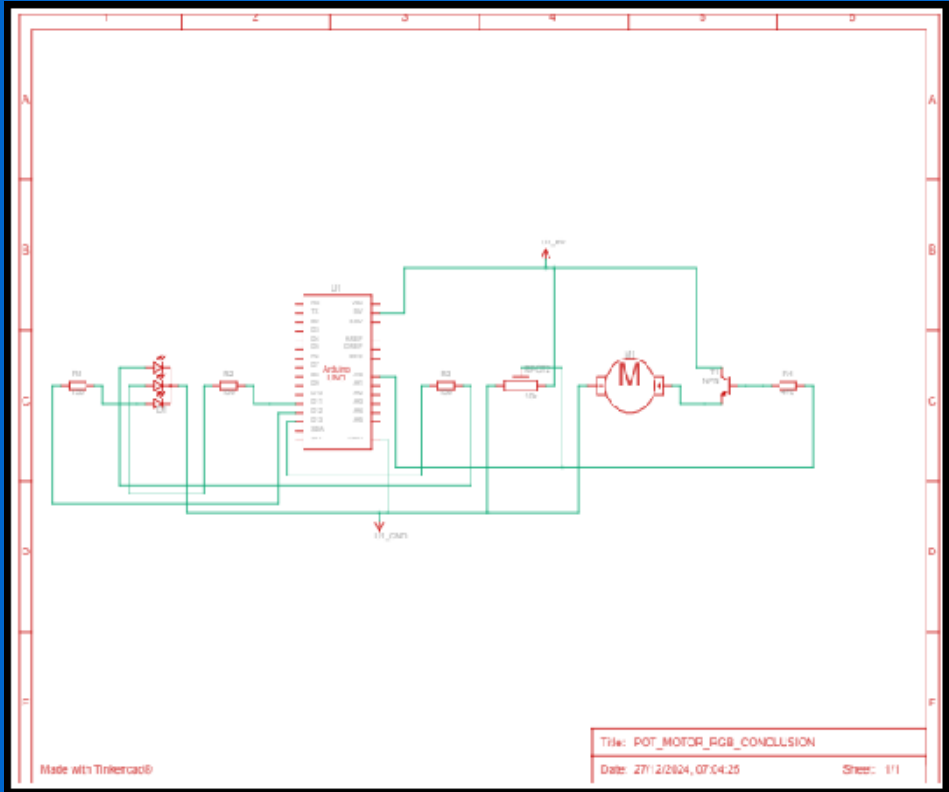
PWM RGB MOTOR CONTROL

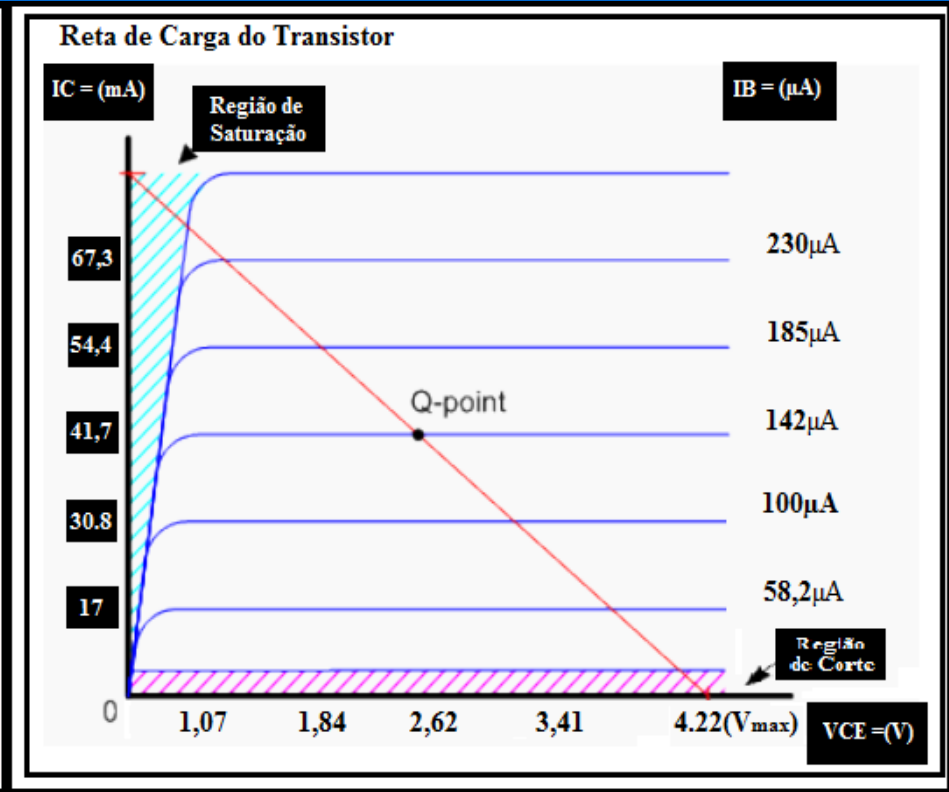


PWM RGB MOTOR CONTROL



PWM RGB MOTOR CONTROL
LOGICAL DIAGRAM & LINE LOAD





A(n,p) = n! / (n-p)!

A(n,p) = n * (n-1) * (n-2) ,etç...

A(256,3) = n * (256-1) * (256-2) = 16.581,120 divers possible shades

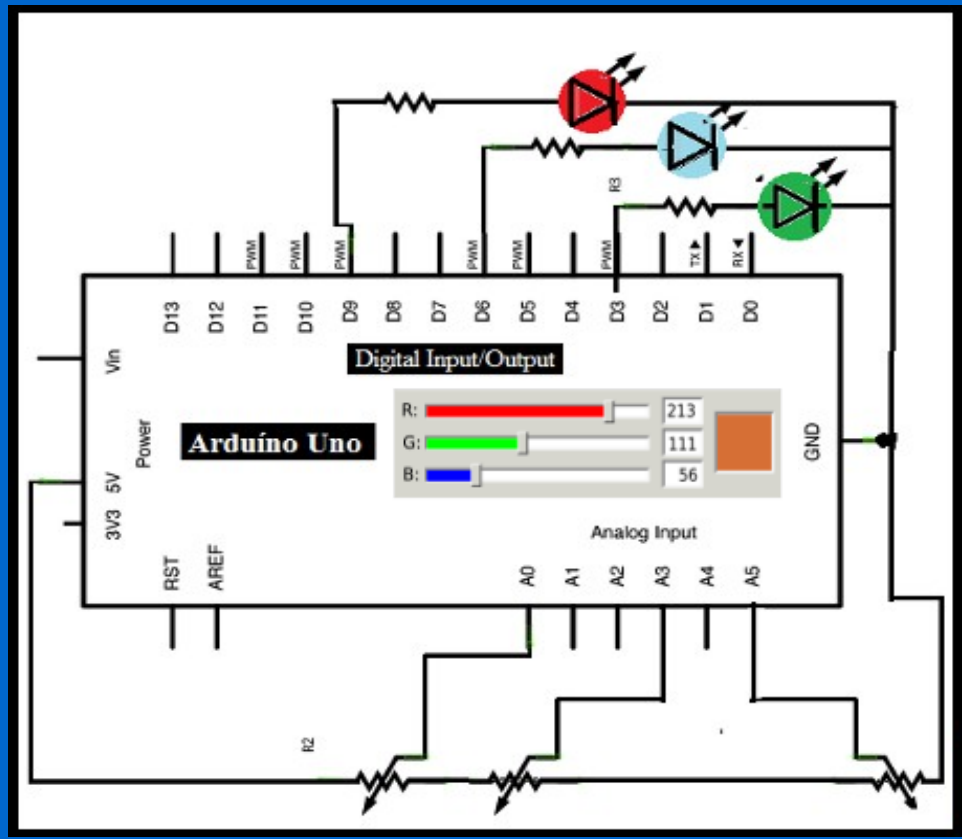
MICROCONTROLADOR DIGITAL MAPING OUTPUT
5V/ 256 = 19,5mV

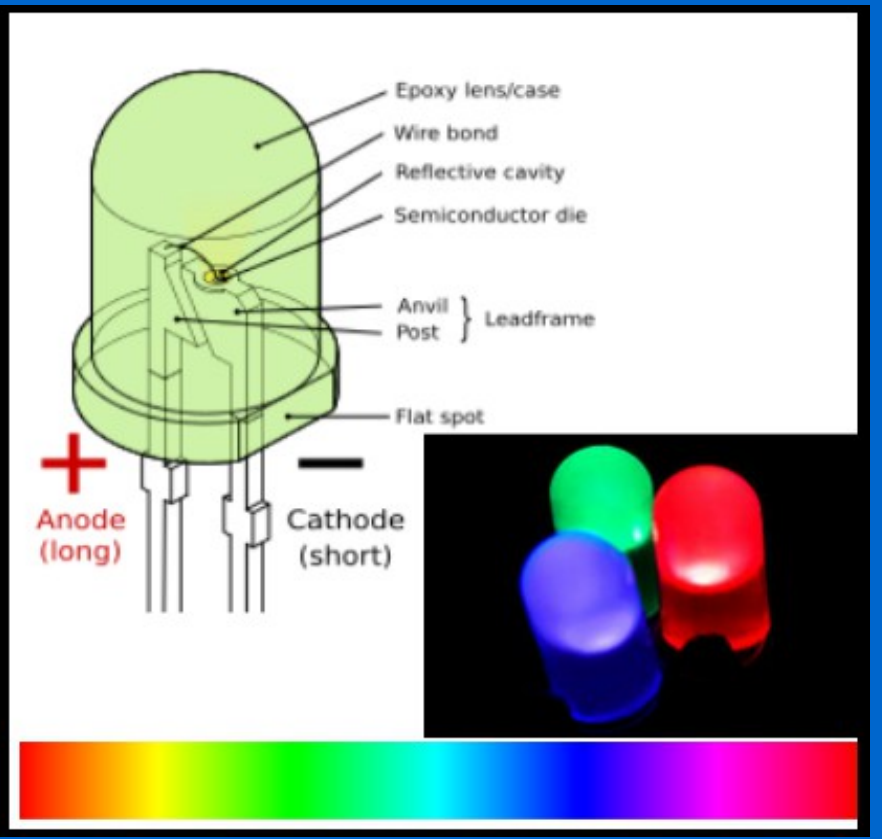
19,53125mV	19,53125mV	19,53125mV

For an exemple:
To try understandingrightly, we could take that brown colour of our slide presentation and show his range rgb voltage.
Let`s behold it?

4,16VDC	2,16VDC	1,09VDC	Result

COLOUR`S RANGE COMPOSITION





POST COURSE SELF CREATION

Behold, it is just only a single congratulation within your whole crew, as well as I have already had been writting at the 1th slide.

Once, semaphores applyancies, really was one of our last examinations matters there at our Technical School, I did fetch inspiration to go a little far way within Arduino/CC_web_site tutorials help, mentioned at my thinkercad sketches, beyond that with some Wikipedia RGB and MOODLE single subjects also.

By no means, it really was done and undone, almost a thousand times at one hard and lonely work yet it was finally conclude.

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